

Angka Giliran _____

UNIVERSITI SAINS MALAYSIA

Peperiksaan Semester Kedua
Sidang Akademik 2003/2004

Februari/Mac 2004

JKA 214 – Manusia dan Persekitaran

Masa: [3 jam]

Sila pastikan bahawa kertas peperiksaan ini mengandungi DUA BELAS muka surat yang bercetak sebelum anda memulakan peperiksaan.

Kertas soalan ini mengandungi Bahagian A dan Bahagian B. Jawab Soalan 1 dalam Bahagian A dan DUA (2) soalan lain dalam Bahagian B.

Baca arahan dengan teliti sebelum anda menjawab soalan.

Bahagian A diperuntukan 40 markah dan Bahagian B diperuntukan 60 markah.

BAHAGIAN A: (40 markah)

Soalan 1

- (a) Terangkan perbezaan ciri-ciri adaptasi masyarakat di kawasan gurun dan di kawasan tundra.

(10 markah)

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper appears to be a standard notebook page, possibly from a spiral-bound notebook, as there's a slight shadow on the left edge suggesting binding. The paper is otherwise blank, with no writing or markings other than the lines themselves.

...3/-

- (b) Huraikan bagaimana aktiviti manusia menggalakkan perluasan kawasan gurun.

(10 markah)

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper appears to be a standard notebook page or a sheet of stationery. There is no handwriting or other markings on the page.

...4/-

- (c) Huraikan kesan pembinaan empangan ke atas persekitaran sosial dan budaya.

(10 markah)

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

- (d) Huraikan bagaimana aktiviti manusia telah meningkatkan kesan bahan-bahan pencemar berikut.

(10 markah)

- (i) karbon dioksida

- (ii) kloroflourokarbon

...6/-

BAHAGIAN B: (60 markah)

Jawab DUA (2) soalan. Gunakan ruang yang disediakan.

2. Menurut Barry Commoner (1971), pencemaran wujud apabila 4 hukum ekologi (*laws of ecology*) dilanggar. Huraikan setiap hukum ekologi tersebut.
(30 markah)
3. Bincangkan kebaikan dan keburukan penggunaan bahan kimia dalam pertanian.
(30 markah)
4. Bincangkan bagaimana penggunaan bioteknologi dapat meningkatkan kualiti hidup manusia.
(30 markah)

Angka Giliran _____

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Soalan No. _____

This image shows a single page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page, typical of notebook paper. There is no handwriting or other markings on the page.

...8/-

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

This image shows a single page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page, leaving small margins at the top and bottom. There is no handwriting or printed text on the page.

Soalan No. _____

This image shows a single page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page, leaving small margins at the top and bottom. There is no handwriting or other markings on the paper.

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